

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 February 2004 (19.02.2004)

PCT

(10) International Publication Number
WO 2004/016005 A1

(51) International Patent Classification⁶: **H04Q 3/545**,
H04L 12/56

(74) Agent: **CAMP, Ronald**; Marconi Intellectual Property,
Marrable House, The Vineyards, Great Baddow, Chelms-
ford, Essex CM2 7QS (GB).

(21) International Application Number:
PCT/IB2003/003776

(22) International Filing Date: 4 August 2003 (04.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
102 35 646.7 2 August 2002 (02.08.2002) DE

(71) Applicant (for all designated States except US): **MAR-
CONI COMMUNICATIONS GMBH** [DE/DE]; Gerber-
strasse 33, D-71520 Backnang (DE).

(72) Inventor; and

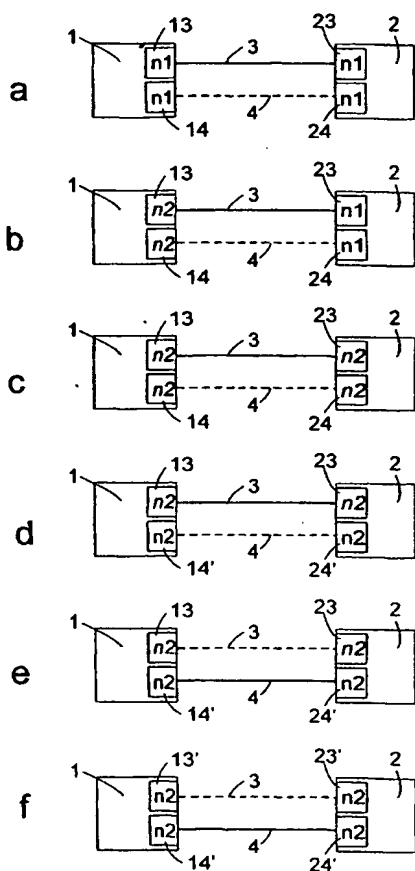
(75) Inventor/Applicant (for US only): **MUELLER, Goetz**
[DE/DE]; Sandacker 61, D-71554 Weissach i.T. (DE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: TELECOMMUNICATION NETWORK AND UPGRADING METHOD THEREFORE



(57) Abstract: For upgrading a section of a telecommunication network comprising two nodes (1, 2) one (4) of data lines (3, 4) interconnecting the nodes is selected to be carrier of redundant specimens of information units to be transmitted. An external condition for upgrading a section of a telecommunication network comprising two nodes (1, 2) one (4) of data lines (3, 4) interconnecting the nodes is selected to be carrier of redundant specimens of information units to be transmitted. An external condition is fulfilled, which is detected by a control unit of the node and causes the control unit to block changes to connections going via the line (4). In this state, the interface circuits (14, 24) of nodes (1, 2) connected to the selected line (4) are replaced by more powerful ones (14', 24'), and the condition is unfulfilled again. The method is repeated for the other data line (3).

WO 2004/016005 A1